Notice of Allowability	Application No.	Applicant(s)		
	10/657,416	TSUJI ET AL.		
	Examiner	Art Unit		
	Thanhha Pham	2813		
	Thailina Fhairi	2013		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject t	oplication. If not included n will be mailed in due cou	rse. THIS	
1. $igotimes$ This communication is responsive to <u>03/22/2006 and inter</u>	view dated 4/14/2006.			
2. \boxtimes The allowed claim(s) is/are <u>1-12 and 22</u> .				
 Acknowledgment is made of a claim for foreign priority ur a)	e been received.			
Certified copies of the priority documents have				
Copies of the certified copies of the priority do	cuments have been received in this	national stage application	from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the require	ements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO	-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the draw he header according to 37 CFR 1.121	ings in the front (not the bac (d).	k) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal	Patent Application (PTO-15	52)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	,,	/	
	Paper No./Mail Da	Paper No./Mail Date		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date		 7. ⊠ Examiner's Amendment/Comment 8. ⊠ Examiner's Statement of Reasons for Allowance 		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ient of Izeasons for Willowal	100	
	9.			
	Thank	Le Phans		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Katsuhiro Arai on 04/14/2006.

The application has been amended as follows:

In claim 1,

line 11, after "thereon" insert -- wherein the first insulation film has a hardness of less than 6 GPa, and the second insulation film has a hardness of no less than 6GPa --

Allowable Subject Matter

- Claims 1-12 and 22 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Recorded Prior Art fails to disclose or suggest the combination of the process steps for forming an interlayer insulation film for multilayer interconnect of a semiconductor integrated circuit as recited in the base claims 1 and 2 including: continuously forming a second insulation film on the first insulation film at a thickness less than the first insulation film in situ by plasma CVD using a second source gas comprising a silicon-containing hydrocarbon gas and an oxidizing gas; and subjecting the second insulation film to

Art Unit: 2813

polishing for forming a subsequent layer thereon, wherein the first insulation film has a hardness of less than 6 GPa, and the second insulation film has a hardness of no less than 6 GPa.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-1696. The examiner can normally be reached on Monday and Thursday 9:00AM 9:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanhha Pham